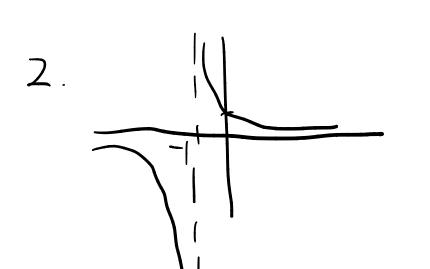
Limits and Discontinuity

For which of the following should one use a one-sided limit? In each case, evaluate the one- or two-sided limit.

- 1. $\lim_{x \to 0} \sqrt{x}$
- 2. $\lim_{x \to -1} \frac{1}{x+1}$
- 3. $\lim_{x \to 1} \frac{1}{(x-1)^4}$
- $4. \lim_{x \to 0} |\sin x|$
- $5. \lim_{x \to 0} \frac{|x|}{x}$

6/1/25

one side



$$\lim_{x \to -1} \frac{1}{2(t)} = \infty$$

5.